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environment Authors: Valtanen, Kristiina; Nayha, Tuomo Affiliation: AA(VTT ...
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Design of **Dynamically Reconfigurable Real-Time Software** Using Port-Based Objects
PK Khosla, I Fellow - IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, 1997 - ieeexplore.ieee.org
IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, VOL. 23, NO. 12, DECEMBER 1997 759 Design
of **Dynamically Reconfigurable Real-Time Software** Using Port-Based Objects ...
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   emulation to validate a cluster tool simulation model
   H. Todd LeBaron, Ruth Ann Hendrickson
   December 2000 **Proceedings of the 32nd conference on Winter simulation**
   Publisher: Society for Computer Simulation International
   Full text available: 🔁 pdf(217.88 KB)   Additional Information: full citation, abstract, references, citings

> Getting the most productivity per square foot of clean room space is a common goal for
> today's semiconductor fabs. Cluster tool throughput is an important factor in a tool's
> productivity index. Maximizing and accurately predicting throughput is a high priority in
> the cluster tool market. This paper presents a flexible and sufficiently accurate cluster tool
> simulation model. The simulation model can run as an emulator, using the real-world
> cluster tool scheduler (CTS), or as a stand-alone simulat ...

2 Research directions in virtual environments: report of an NSF Invitational Workshop,   ■
   March 23-24, 1992, University of North Carolina at Chapel Hill
   Gary Bishop, Henry Fuchs
   August 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 3
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3 A hybrid numeric/symbolic program for checking functional and timing compatibility of ■
   synthesized designs
   Chih Tung Chen, Alice C. Parker
   May 1994 **Proceedings of the 7th international symposium on High-level synthesis**
   Publisher: IEEE Computer Society Press
   Full text available: 🔁 pdf(588.17 KB)   Additional Information: full citation, references

4 A modular approach to simulation of robotic systems   ■
   D. J. Medeiros, R. P. Sadowski, D. W. Starks, B. S. Smith
   January 1980 **Proceedings of the 12th conference on Winter simulation**
   Publisher: IEEE Press
   Full text available: 🔁 pdf(397.37 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents the results of a simulation effort performed as part of the ICAM
> robotics program. The initial Q-GERT simulation model is briefly described, followed by the

presentation of a modular approach to simulation of robotic systems. In this approach, predefined Q-GERT modules, described by simple block diagrams, are assembled to produce a complete model. The system design logic is discussed and the available modules are briefly described. Examples are presented in block diagram ...

5 <u>Increasing the power and value of manufacturing simulation via collaboration with other analytical tools (panel session): a panel discussion</u>

Onur M. Ülgen, John Shore, Gene Coffman, David Sly, Matt Rohrer, Demet Wood
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**
Publisher: ACM Press
Full text available: pdf(62.28 KB)   Additional Information: <u>full citation</u>, <u>citings</u>, <u>index terms</u>

6 <u>An approach to using a data base management system in manufacturing system simulation</u>

Hui Jun Han, Kenneth A. Fegley
December 1986 **Proceedings of the 18th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(709.81 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The organization and management of the data in a computer simulation of a discrete event system can be a significant task. This task can be facilitated by linking a data base management system with the computer language used for the simulation. This paper presents such a linkage using dBase III for the data base management system and TURBO-PASCAL for the computer language. dBase provides the means to file system model parameters, simulation input data and simulation output data. Since dBase ...

7 <u>The ControlShell component-based real-time programming system, and its application to the Marsokhod Martian Rover</u>

Stan Schneider, Vincent Chen, Jay Steele, Gerardo Pardo-Castellote
November 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems LCTES '95**, Volume 30 Issue 11
Publisher: ACM Press
Full text available: pdf(1.39 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Real-time system software is notoriously hard to share and reuse. This paper walks through the methodology and application of ControlShell, a component-based programming system for real-time system software development. ControlShell combines graphical system-building tools, an execution-time configuration manager, a real-time matrix package, and an object name service into an integrated development environment. It targets complex systems that require on-line reconfiguration and strategic control ...

8 <u>An integration test-bed system for supply chain management</u>

Shigeki Umeda, Albert Jones
December 1998 **Proceedings of the 30th conference on Winter simulation**
Publisher: IEEE Computer Society Press
Full text available: pdf(97.66 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

9 <u>Development of generic simulation models to evaluate wafer fabrication cluster tools</u>

Neal G. Pierce, Michael J. Drevna
December 1992 **Proceedings of the 24th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(449.87 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

10 A real world object modeling method for creating simulation environment of real-time systems

Ji Y. Lee, Hye J. Kim, Kyo C. Kang

October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '00,** Volume 35 Issue 10

Publisher: ACM Press

Full text available: pdf(405.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most real-time embedded control software feature complex interactions with asynchronous inputs and environment objects, and a meaningful simulation of a real-time control software specification requires realistic simulation of its environment. Two problems that need to be addressed in the simulation of a target software system and its environment: First, integration and simulation of the specifications of a target software system and its artificial environment are often performed too late in the ...

Keywords: real-time control software, requirement specification, simulation, validation, verification

11 Applying the simulation process: simulation study of HDA parts degreaser

Robert Kittell, Ann Dunkin

December 1991 **Proceedings of the 23rd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available: pdf(475.07 KB)   Additional Information: full citation, references, index terms

12 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation

Charles McLean, Frank Riddick

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(269.47 KB)   Additional Information: full citation, abstract, references, citings

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

13 Mobile robot simulation of clinical laboratory deliveries

Manuel D. Rossetti, Amit Kumar, Robin A. Felder

December 1998 **Proceedings of the 30th conference on Winter simulation**

Publisher: IEEE Computer Society Press

Full text available: pdf(108.53 KB)   Additional Information: full citation, references, index terms

14 Evaluation of cluster tool throughput for thin film head production

Eric J. Koehler, Timbur M. Wulf, Alvin C. Bruska, Marvin S. Seppanen

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**

Publisher: ACM Press

Full text available: pdf(83.62 KB)   Additional Information: full citation, references, citings, index terms

15 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)
Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.45 MB)   Additional Information: full citation, references, index terms

16 Simulation and advanced manufacturing system design
Van B. Norman, T. A. Norman
December 1986 **Proceedings of the 18th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(413.46 KB)   Additional Information: full citation, abstract, index terms

> A case study is presented which demonstrates the design and implementation of an integrated manufacturing system using AutoMod, an integrated simulation tool developed by AutoSimulations, Inc.

17 Simulation modelling support via network based concepts
Stephen C. Mathewson
December 1990 **Proceedings of the 22nd conference on Winter simulation**
Publisher: IEEE Press
Full text available: pdf(953.01 KB)   Additional Information: full citation, references, citings, index terms

18 Implementation of the data-flow synchronous language SIGNAL
Pascalin Amagbégnon, Loïc Besnard, Paul Le Guernic
June 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 conference on Programming language design and implementation PLDI '95**, Volume 30 Issue 6
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper presents the techniques used for the compilation of the data-flow, synchronous language SIGNAL. The key feature of the compiler is that it performs formal calculus on systems of boolean equations. The originality of the implementation of the compiler lies in the use of a tree structure to solve the equations.

19 Planning of production and material flow systems by inter-interactive computer graphics simulation
Werner Großeschallau, Robert Heinzel
January 1984 **Proceedings of the 17th annual symposium on Simulation**
Publisher: IEEE Press
Full text available: pdf(747.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

> The INSIMAS (Interactive Simulation of Material Flow-Systems) simulation system is described. The systems-concept corresponds to the four planning steps design, analysis, simulation and evaluation. Each step is supported by interactive computer graphics procedures. The simulation run can be represented on a graphics screen by moving of objects (vehicles) through the simulated network. Main applicatio ...

20 Real-time hierarchically distributed processing network interaction simulation
Wayne F. Zimmerman, Chung-I Wu
January 1988 **Proceedings of the 21st annual symposium on Simulation**

Publisher: IEEE Computer Society Press
Full text available: 📄 pdf(1.26 MB)   Additional Information: full citation, abstract, references, index terms

The Telerobot Testbed is a hierarchically distributed processing system which is linked together through a standard, commercial Ethernet. Standard Ethernet systems are primarily designed to manage non-real-time information transfer. Therefore, collisions on the net (i.e., two or more sources attempting to send data at the same time) are managed by randomly rescheduling one of the sources to retransmit at a later time interval. Although acceptable for transmitting noncritical data such as ma ...

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